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| **Subject / Course:** Math | **TC Name:** Jessica Stone | |
| **Grade Level:** Grade 8 | **Date:** October 22, 2010 | |
| **Topic:** Measurement – Circumference | **Time of Class:** 50 min | |
| **AT Name:** Miss French | **Room # / Location:** Rm. 5 | |
| **1. Curriculum Expectation(s) and Goal(s) for the Lesson** | |  |
| 1. **Expectations**  * Measure the circumference, radius and diameter of circular objects, using concrete materials * Determine through investigation using a variety of tools and strategies, the relationship for calculating the circumference and area of a circle, and generalize to develop formulas | | |
| 1. **Goal(s) for the lesson:**   Students will have learned by the end of the lesson   * The definition of circumference * The relationship between circumference and diameter * The mathematical term pi (π)   How will I know they learned the concepts   * Discussing as the class the pattern seen between the circumference and diameter * Having the students write down the definition for pi in their student work books | | |
| **2. Preassessment and Accommodations/Modifications** | | |
| |  |  | | --- | --- | | **Preassessment:** | **Accommodation/Modification:** | | **Academic Needs:**   * **Group that finishes early** * **Group that doesn’t understand** |  | | **Behavioural/Social/Emotional Needs:**   * **Student that gets easily distracted and talks out** |  | | **Physical Needs:** |  | | **Diversity Needs:** |  | | | |

**3. Learning Environment**

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| Students will be working with the members of their table group. |

**4. The Overview (Agenda) for your lesson:**

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| * Introduction: Group work on Q1-7 * Lock in answers with Clickers * Review on Circumference and relationship to diameter * Discovery of Pi and Circumference Equation * Practice Examples (as a class) * Homework questions |

**5. Resources and Materials for your class**

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| * Practice sheet on diameter and radius * Clicker set * Circumference activity worksheet * Textbook |

**6. Content, Teaching Strategies, for Lesson**

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| **Time** | **Teaching or**  **Assessment Strategy** | **Detailed Description** |
| 15 minutes | Introduction/hook | * Accessing prior knowledge – review of last days chart (diameter, radius, and circumference) * Group work on Q1-7 * Lock in answers using Clickers |
| 15 minutes | Instruction | **Discovery of Pi and Circumference Equation**   * Discuss the relationship between circumference and diameter (pi) * Introduce formula for circumference |
| 10min | Application | * Do an example using the newly discovered equation * How would you calculate the circumference of a circle if you knew only its radius? (Calculate the circumference of a circle which has a radius of 5cm) * If you knew the circumference f a circle, how would you calculate its diameter? (Calculate the radius of a circle with a circumference of 30cm) |
| 10min | Consolidation | * Homework sheet |

**7. Reflections: To be completed after you have taught the lesson.** (In this section, you will assess the effectiveness/ineffectiveness of your lesson and of your teaching.

**a) Effectiveness of your lesson***.*

*Include 2 or 3 lesson elements that were effective/ineffective. What went well, what could have gone better? How was the pacing of your lesson? Were your teaching strategies effective? Were all students engaged? Did the students accomplish your goal? Did your assessment strategies work?*

*What do you need to learn more about? What do you need to work on when planning your next lesson? Should you discuss something with your AT or your FA?*

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| **What was effective/ineffective about your lesson** | **How do you know?** | **What steps will you take to improve?** |
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**b) Effectiveness as a Teacher:**

*Include 2 or 3 comments about your effectiveness as a teacher or areas that could be improved. You could comment on your ability to manage the class, use higher order questions, your questioning technique and your ability to have the participation of all students. How effective was your oral and/or written communication? Were you able to adjust your lesson plan as required?*

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| **What was effective/ineffective about you as a teacher?** | **How do you know?** | **What steps will you take to improve?** |
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